



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 6:09 AM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 058 Const Calendar Day: 575 Date: 06-Apr-2011 Wednesday

Inspector Name: Wright, Doug Title: Transportation Engineer

Inspection Type: Continuous

Shift Hours: 07:00 AM 05:30 PM Break: 00:30 Over Time: 02:00

Federal ID:

Location:

Reviewer: Soheilifard, Saman Approved Date: 13-Apr-11 Status: Approved

04-0120F4
04-SF-80-13.2/13.9
Self-Anchored
Suspension Bridge

Weather

Temperature 7 AM 12 PM 4PM

Precipitation Condition

Working Day ☒ If no, explain:

Diary:

Dispute

Tower Activities

Bolting at Splice #1 - Elevation 50.3m

Bolting of 27mm A490M assemblies was ongoing throughout the shift. Snug tightening and tensioning continued on the skin bolts & longitudinal stiffener bolts inside the North shaft. Also, snug tightening and tensioning started on the skin bolts inside the West shaft.

I witnessed torque verification testing on the East shaft longitudinal stiffeners. The following connections were tested:

- The North shaft bolts on Skin A
- The North shaft bolts on Skin B, Columns B1 through B15 only (B16 & above left open for ventilation)
- The North shaft bolts on Skin C, Columns C11 through C22 only (C1-C10 left open for ventilation)
- The North shaft bolts on Skin D
- The North shaft bolts on Skin E
- The West shaft, the skin bolts behind the B-C corner splice plate

Welding continued throughout the shift on ESW restraint brackets on shear plates a1S, a2S, & b1E.

Welding at Splice #2 - Elevation 83m:

Inside the South shaft, the only welding ongoing was to increase the size of the tack welds. Several of the previous tack welds cracked. These were removed and MT tested to verify soundness.

Inside the West shaft, prep work was ongoing to fit the plates. Also, temporary attachments were being tack welded into place.

Bolts at Splice #2:

Sami Daouk brought something to my attention today regarding the bolts on the West shaft at Splice #2. He noticed that some bolts are missing and broken on the West shaft. We did a little further investigating, and found that 4 bolts were broken (see attached photo). 3 of the bolts were on Skin D, were 240mm in length, and had been tensioned from the head. 1 bolt was on Skin E, was 280mm in length, and had been tensioned from the nut. All of these bolts were tensioned and bought off over 2 months ago. I spoke with ABF Engineers Mark MacDonald and Scott Yeager, and they were unsure of the cause. They speculated that the bolts may have been over-tensioned, and broke after being subjected to thermal loads over the past 2 months. The issue of welding preheat was discussed because they recently started welding inside the West shaft at this location. However, MacDonald mentioned that they noticed this issue one week ago



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prior to the start of any welding in the West shaft. Also, the broken bolts are at least 10 feet away from the localized welding preheat. I called and emailed Mark Woods regarding this issue. We will continue to investigate to define the scope of the issue.

04-0120F4 Bid Item: 053 T-L01-TNE.053 Tower Lift 01 Tower NE Erect structural steel (bridge tower)

AMERICAN BRIDGE/FLUOR, A JV

Labor

Trade	Class	Name	RT Hrs	OT Hrs	DT Hrs	Total	Remarks	Dispute
Contractor: AMERICAN BRIDGE/FLUOR, A JV								
Ironworker	APP	IAN MURPHY	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	JNM	ERIC SPARKS	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	FOR	EARL CLAYBORN	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	APP	JEFFERY SOUZA	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	APP	Alex Blanco	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	APP	TODD JACKSON	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	JNM	SALVADOR SANDOVAL	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	APP	KENNETH CHAPPELL	8.00	0.00	0.00	8.00		<input type="checkbox"/>
Ironworker	APP	Tony Miranda	8.00	2.00	0.00	10.00		<input type="checkbox"/>
Ironworker	JNM	RYAN NASH	8.00	2.00	0.00	10.00		<input type="checkbox"/>
Ironworker	JNM	ROGELIO RUIZ	8.00	2.00	0.00	10.00		<input type="checkbox"/>
Ironworker	FOR	DAVID LUCERO	8.00	2.00	0.00	10.00		<input type="checkbox"/>